IN THE UNITED STATE PATENT AND TRADEMARK OFFICE

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DRAWINGS : 6
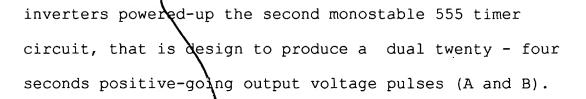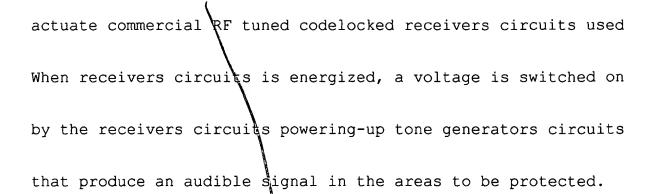
MULTIPE AREA SMOKE DETECTOR SYSTEM

CLAIMS

I CLAIM:

(1) Using an inverted DC voltage Pulse generated by a
conventional design commercial smoke Detector
(Ionization Chamber), when energize by the existence
of smoke to trigger start a monostable 555 timer
circuit, that generate an positive-going output
voltage pulse designed for thirty seconds.

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(2) The positive-going output voltage pulse generate by the

first timer in claim 1, coupled through two not gate

inverters powered-up the second monostable 555 timer
circuit, that is design to produce a dual twenty - four
seconds positive-going output voltage pulses (A and B).

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(3) The (A) output voltage pulse in claim 2, of the second 555
timer circuit provide the voltage pulse for the twenty-four
second false alarm visual lamp indicator, and at the same time

through an inverted voltage input pulse trigger starting the

third monostable 555 timer circuit. The two-hundred and four
seconds positive going output voltage pulse produced by the
third 555 timer circuit is design to provide the voltage pulse

for the second lamp indicator, that visual indicate which
source smoke detector have been triggered by the existence of
smoke after the twenty-four seconds false alarm time interval
have ended.

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(4) The (B) output voltage pulse in claim 2, of the second 555
timer circuit is connected to the input trigger circuit of the

transmitter.At the end of the twenty-four second time interval

the voltage pulse goes low energizing an commercial RF tuned
codelocked transmitter circuit,generating an RF Signal that

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actuate commercial RF tuned codelocked receivers circuits used

When receivers circuits is energized, a voltage is switched on

by the receivers circuits powering-up tone generators circuits

that produce an audible signal in the areas to be protected.

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(5) Smoke detectors used to protect areas are embodiment with RF
    tuned codelocked transmitters and receivers.

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(6) The system contians circuitry for resetting the individual
    smoke detector and system. The sytsem and individual smoke
    detector trigger by the existence of smoke can be reset from
    another smoke detector other than the one that was trigger by
    the existence of smoke if user desire. The system can be reset
    by manual RF tuned codelocked switches on commercial
    transmitters, or by hand held RF tuned codelocked remote
    control unit on commercial transmitter.

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(7) Resetting individual smoke detector and system in claim 6. To
    reset individual smoke detector that is triggered by the
    existence of smoke and system before the twenty-four seconds

false alarm period end, by pressing twice in succession manual
RF tuned codelocked switch on commercial transmitters, or by
hand held RF tuned codelocked remote control unit. To reset
system after twenty-four seconds false alarm period have ended.

By pressing once manual RF tuned codelocked switch on
commercial transmitters, or by hand held RF tuned codelocked
remote control unit.

(8) The development as claim in 1,2,3,4,5 6 and 7 can be used as
an individual smoke detector with the same capability to
protect a single area, by having RF tuned codelocked
transmitter and receiver embodied.

(9) An individual smoke detector as claim in 8, have the
same capability of resetting single smoke detector with RF
tuned codelocked remote control unit, and manual switch on
transmitter.